

[KO Validated] STAT3 Rabbit mAb

Catalog No.: A19566 **KO** **Validated** **Recombinant** **2 Publications**

Basic Information

Catalog No.

A19566

Observed MW

82KDa/88KDa

Calculated MW

88kDa

Category

Primary antibody

Applications

WB, IHC, IF, IP

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200
IP	1:50 - 1:200

Contact

 | www.abclonal.com

Background

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]

Immunogen Information

Gene ID	Swiss Prot
6774	P40763

Immunogen

A synthesized peptide derived from human STAT3.

Synonyms

ADMIO;ADMIO1;APRF;HIES;STAT3;Stat3

Product Information

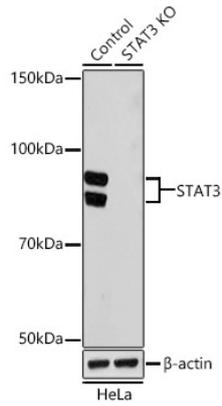
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

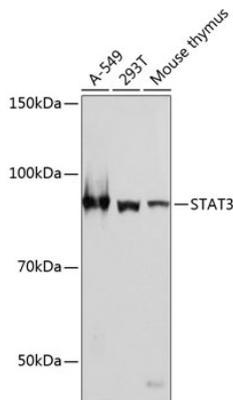
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

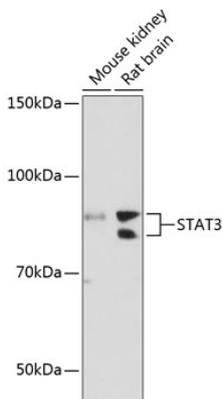
Validation Data



Western blot analysis of extracts from normal (control) and STAT3 knockout (KO) HeLa cells, using STAT3 antibody (A19566) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1min.

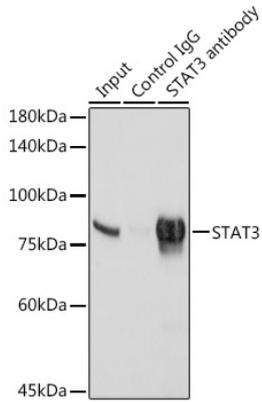


Western blot analysis of extracts of various cell lines, using STAT3 antibody (A19566) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1min.

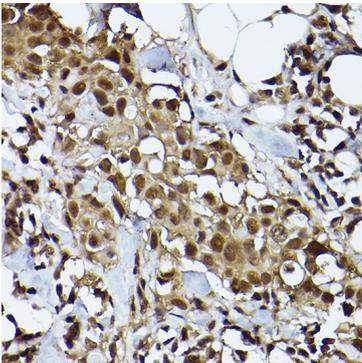


Western blot analysis of extracts of various cell lines, using STAT3 antibody (A19566) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3min.

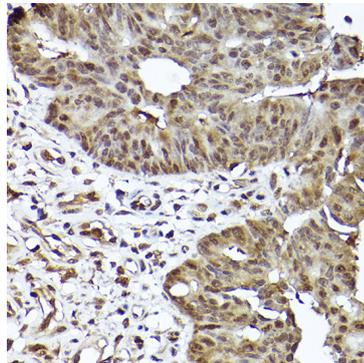
Validation Data



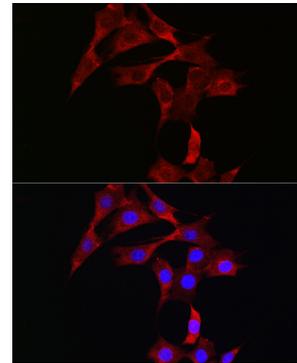
Immunoprecipitation analysis of 300ug extracts of HeLa cells using 3ug STAT3 antibody (A19566). Western blot was performed from the immunoprecipitate using STAT3 antibody (A19566) at a dilution of 1:1000.



Immunohistochemistry of paraffin-embedded human breast cancer using [KO Validated] STAT3 Rabbit mAb (A19566) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human colon carcinoma using [KO Validated] STAT3 Rabbit mAb (A19566) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] STAT3 Rabbit mAb (A19566) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.